Notice of Allowability	Application No.	Applicant(s)		
	10/019,743	SASAKI ET AL.		
	Examiner	Art Unit		
	Anand U. Desai, Ph.D.	1653		
The MAILING DATE of this communication apperall claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this app or other appropriate communication GHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS	
1. This communication is responsive to <u>December 29, 2004</u> .				
2. The allowed claim(s) is/are <u>1-19</u> .				
3. The drawings filed on are accepted by the Examine	r.			
 4. Acknowledgment is made of a claim for foreign priority una) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	been received. been received in Application No		ion from the	
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONM THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the red	_l uirements	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give			OTICE OF	
6. CORRECTED DRAWINGS (as "replacement sheets") must (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the Toldand Proposition of the Deposit of and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT	con's Patent Drawing Review(PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawin he header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	Office action of ngs in the front (not the d).		
	FOR THE DEPOSIT OF BIOLOGICA	AL WATERIAL		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. ☐ Notice of Informal P	atent Application (PT0	D-152)	
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)		 6. ☑ Interview Summary (PTO-413), Paper No./Mail Date 20050315. 7. ☑ Examiner's Amendment/Comment 8. ☐ Examiner's Statement of Reasons for Allowance 9. ☐ Other 		
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0				
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material				

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DETAILED ACTION

1. This office action is in response to Amendment filed on December 29, 2004. New claim 19 has been added. Claims 1-19 are currently pending and are under examination.

Withdrawal of Rejections

- 2. The rejection of claims 1-16, and 18 under 35 U.S.C. 112, 2nd paragraph is withdrawn based on amendments to the claims.
- 3. The rejection of claims 16, and 17 under 35 U.S.C. 102(e) as being anticipated by Hutchinson (U.S. Patent 5,889,110) is withdrawn.
- 4. The rejection of claims 16, and 17 under 35 U.S.C. 102(e) as being anticipated by Hatanaka et al. (U.S. Patent 6,211,333) is withdrawn.

Response to Amendment

5. The Declaration filed on December 29, 2004 under 37 CFR 1.131 is sufficient to overcome the Hatanaka et al. reference (U.S. Patent 6,211,333).

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Dr. Stephana E. Patton on March 21, 2005.

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Examiner's Amendment to the Claims:

1. (Currently Amended) A process for preparing a <u>purified</u> LH-RH derivative which comprises the steps of:

contacting a solution containing the LH-RH derivative with a methacrylic synthetic adsorption resin; and contacting the solution containing the LH-RH derivative with an aromatic synthetic adsorption resin, thereby preparing a purified LH-RH derivative.

- 6. (Currently Amended) The process according to claim 5, wherein an average particle size of the styrene-divinylbenzene, synthetic adsorption resin is about 60 μm pm to about 150 μm pm.
- 7. (Currently Amended) The process according to claim 1, wherein said process comprises subjecting a solution containing the LH-RH derivative to the step for treatment with a methacrylic synthetic adsorption resin below about 10°C.
- 8. (Currently Amended) The process according to claim 1, wherein said process comprises subjecting a solution containing the LH-RH derivative to the step for treatment with an aromatic synthetic adsorption resin at about 10°C to about 20°C.
- 9. (Currently Amended) The process according to claim 1, wherein said process comprises subjecting a solution containing the LH-RH derivative to the step for treatment with a methacrylic, synthetic adsorption resin, followed by subjecting to the step for treatment the LH-RH derivative solution with an aromatic, synthetic adsorption resin.
- 10. (Currently Amended) The process according to claim 1, said process comprises passing a solution containing the LH-RH derivative through a resin the methacrylic synthetic

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adsorption resin in the step of contacting the LH-RH derivative with the methacrylic synthetic adsorption resin; and then eluting the LH-RH derivative, which is adsorbed on the resin, with an aqueous solution of acetic acid.

- 12. (Currently Amended) The process according to claim 1, wherein said process comprises passing a solution containing the LH-RH derivative through a resin the methacrylic, synthetic adsorption resin in the step of contacting the LH-RH derivative with a methacrylic, synthetic adsorption resin, followed by washing with an aqueous solution of ethanol, and then by eluting the LH-RH derivative that is adsorbed on the resin.
- 13. (Currently Amended) The process according to claim 1, wherein a solution containing the LH-RH derivative is that obtained by subjecting the LH-RH derivative protected with protective group(s) to a deprotection reaction followed by a neutralization reaction below about 10°C.
- 14. (Currently Amended) The process according to claim 1, wherein a solution containing the LH-RH derivative is that obtained by subjecting the LH-RH derivative protected with protected group(s) to a deprotection reaction and then a neutralization reaction below about 10°C, followed by subjecting the resulting mixture to extraction of the LH-RH derivative and then concentration of the extract below 25°C.
- 19. (Currently Amended) The purified <u>leuprorelin</u> or a salt thereof according to claim 16, wherein the impurities are racemic isomers of the LH-RH derivatives and/or highly polar related substances.

Allowable Subject Matter

7. Claims 1-19 are allowable.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anand U. Desai, Ph.D. whose telephone number is (571) 272-0947. The examiner can normally be reached on Monday - Friday 9:00 a.m. - 5:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jon P. Weber can be reached on (517) 272-0925. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

March 21, 2005

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SUPERVISORY PATENT EXAMINER